

Operational Description of the equipment

The EUT is LP-8616C 802.11n Wireless AP Router(1T1R).

This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps and the device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b).

The device provided of eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11g).

The device provided of eight kinds of transmitting speed up to 72Mbps in 802.11n(20M-BW) mode and up to 150Mbps (40M-BW) the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11n).

This Wireless AP Router, compliant with IEEE 802.11b and IEEE 802.11g/n, is a high-efficiency Wireless AP Router. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires.

Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) radio transmission, the Wireless AP Router Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g/n network.

More detailed information see as below :

PRODUCT	LP-8616C 802.11n Wireless AP Router(1T1R)
MODEL NO.	LP-8616C
BRAND	LOOPCOMM
POWER SUPPLY	DC power source from external adapter Input:100-240V, 0.3A, 50-60Hz Output : 12V, 1A
CABLE	1m unshielded LAN cable. 1m unshielded power core.
FREQUENCY BAND	2.400GHz ~ 2.483.5GHz
CARRIER FREQUENCY	2.412GHz ~ 2.462GHz ; 2.422GHz ~ 2.452GHz
CHANNEL SPACING	5 MHz
NUMBER OF CHANNEL	b/g/n(20M):11 ; n(40M):7
CHANNEL SPACING	20MHz
RATED RF OUTPUT POWER	11b : 0.0753W ; 11g : 0.0411W 11n(20M):0.0358W ; 11n(40M):0.015W
MODULATION TYPE	11b : DSSS ; 11g/n : OFDM
BIT RATE OF TRANSMISSION	11b: 1, 2, 5.5, 11Mbps 11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 11n(20M) : up to 72Mbps 11n(40M) : up to 150Mbps
MODE OF OPERATION	Half Duplex
ANTENNA TYPE	Reverse SMA Dipole
ANTENNA GAIN	2 dBi
OPERATING TEMPERATURE RANGE	0 ~ 60°C